

Blow Patcher
STRASSMAYR STP 1008 AH
rear operating boom with manual operation
built on one axle trailer with homologation



Straßmayr STP 1008 AH Patcher built on a trailer is the easiest and quickest solution for maintaining the roads in a perfect shape. This single axle unit allows performing all stages of the road repair process using a single machine. The repairs made with emulsion and grit technology have proven to be effective and long lasting. Great mobility of this unit allows to repair even hard to reach places, assuring safety at all times, also during transportation, thanks to in-built ABS and ESP systems.

Advantages of Blow Patching Pothole reparation technology:

- Two main materials used for operation (aggregates and emulsion) stay separated till the last moment before application
- No loss of material in case of necessity of stopping the reparation process, materials stay separated in two different bins
- No need to purchase each day small quantities of asphalt mixture easy storage of aggregates and emulsion close to the jobsite

Main engine

- main engine Hatz 3H50TICD
Tier 4 final/EU stage V compliant
- hydraulic pump driving all the functions
- hydraulic oil tank with filter and temperature/oil level indicator
- Kaesser OMEGA blower
delivering flow of air necessary for aggregate transportation

Aggregate bin

- aggregate bin with capacity of 0.5 m³
screw conveyor with hydraulic drive

Emulsion delivery system

- emulsion pump with the hydraulic drive
- emulsion installation secured with an emulsion filter
- circulation installation for emulsion to shorten the heating time
- two step cleaning system for emulsion installation:
first step of cleaning executed by pre-compressed air insufflation
second step of cleaning executed by rinsing with cleaning liquid

Emulsion bin

- emulsion bin capacity of 1000 liter
- insulated with rockwool
- mechanical indicator of filling the emulsion bin
- emulsion bin integrated in the body of the unit
- automatic heating installation by RIELLO burner
thermostat adjusting the temperature of emulsion

Working arm

- Rear Operating Boom enables the reparation in the radius of 3,5 – 4,0 m
- working arm assembled in the back of the trailer, for higher safety of the operator and highest efficiency of reparation work
- ring of nozzles creating the mixture of aggregate and emulsion allowing homogenous coverage of aggregates with emulsion
- by-pass system allows reduction of the speed of aggregates leaving the nozzle and material lost around repaired place
- pneumatic suspension of working arm – pneumatic cylinder supporting the working arm
- easy adjustment of position of the working arm by the operator
- control on the repair process through set of electronic switches and potentiometers

Additional equipment**Additional coat heating**

coat heating system for emulsion pump and emulsion filter
preheating the body of the pump before starting operation
avoiding cooling down of the emulsion when entering cold body of the pump
system of heat exchange delivering the warm liquid to the coat heating system

Water installation

water bin made of stainless steel, capacity of 100l
possibility to spray water through the main nozzle in working arm
possibility to spray water on the aggregate bin

Electronic system Patch Portal

electronic system based on GPS and GSM connection, allowing:

- tracing of the unit when operating
- calculation of material used during operation
- location of single potholes repaired
- check of weather conditions during operation by single potholes

system allows check of technical condition of main components of the unit
when problem, a message in the form of mail or sms will be automatically sent to predefined address or phone number of supervisor
system allows creation of database of several different units
system working based on SIM Card of a customer
system allows export, storage and data processing on external computer

The Blow Patcher technology of road repairing process

1. The examples of a damage of the road

The pictures show the holes in the road and a net of rifts all around the holes.



2. The right machine for reparation of the damage in the road is the STRASSMAYR STP 1008 AH Patcher

All the stages of the reparation will be done using the nozzle of the working arm, while the operator is secured from the following traffic by the body of the truck.



3. Drying and cleaning of the damage

The most important stage in the whole process of reparation. With the use of a special construction of a nozzle, with the pressed air coming out of the blast machine, the right cleaning and drying of a hole is ensured.



4. Spraying of the damage with emulsion

After switching on the emulsion pump, the emulsion will be sprayed from the same nozzle, covering the cleaned bottom of the damage and filling the rifts around the hole. The emulsion in filled rifts create the net of roots which will be an additional hold for the hole filling.



5. Filling the damage with the homogeneous mixture of emulsion and stones

After switching on the hydraulic drive of stone feeding screws, the stones will be transported to the nozzle, where the stone will be covered with the flowing emulsion, making the homogeneous mixture. This mixture blasted with the pressure to the hole will fill the damage.



6. Covering the repaired damage with clean and dry stones

After filling the hole with the homogeneous mixture, the emulsion pump will be switched off, and clean stones will be blasted with pressed air on the repaired damage, covering it with the protective surface. Thanks to this the following cars will be protected from emulsion rests.



7. Picture of the repaired damage

Just after the reparation the traffic can use the repaired road. The additional compaction will be done by the following traffic.



8. The cut of the road damage repaired with the technology of Blow Patching

